In the Claims

1. (ORIGINAL) A relay module for connection to a door latch in a secure area, comprising:

a micro-controller decrypting encrypted communications from a reader in an unsecured area and comparing the decrypted communications to an expected code; and

a relay coupled to said micro-controller switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

- 2. (ORIGINAL) The relay module of claim 1, wherein said relay module and said door latch are a single module.
- 3. (ORIGINAL) The relay module of claim 1, wherein said micro-controller enables said relay if the comparison indicates a correct match.
- 4. (ORIGINAL) The relay module of claim 3, wherein if said relay is enabled, power runs through said door latch to unlock a door.
- 5. (ORIGINAL) The relay module of claim 1, further comprising at least one buffer coupled to said micro-controller for receiving said encrypted communications from said reader.
- 6. (ORIGINAL) The relay module of claim 5, wherein said at least one buffer protects said micro-controller from being damaged if a spike occurs in said communications between said reader and said relay module.
- 7. (ORIGINAL) The relay module of claim 5, wherein said at least one buffer rectifies any voltage level drop between said reader and said relay module.
- 8. (ORIGINAL) A method of switching a door latch in a secure area, said method comprising the steps of:

decrypting encrypted communications from a reader in an unsecured area and comparing the decrypted communications to an expected code; and

switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

9. (ORIGINAL) The method of claim 8, wherein a micro-controller implements said decrypting and comparing steps.

- 10. (ORIGINAL) The method of claim 9, wherein a relay coupled to said micro-controller implements said switching step.
- 11. (ORIGINAL) The method of claim 10, wherein said relay module and said door latch are a single module.
- 12. (ORIGINAL) The method of claim 9, wherein said micro-controller enables said relay if the comparison indicates a correct match.
- 13. (ORIGINAL) The method of claim 12, wherein if said relay is enabled, power runs through said door latch to unlock a door.
- 14. (ORIGINAL) The method of claim 8, further comprising the step of receiving said encrypted communications from said reader.
- 15. (ORIGINAL) The method of claim 14, wherein at least one buffer coupled to said micro-controller implements said receiving step.
- 16. (ORIGINAL) The method of claim 15, wherein said at least one buffer protects said micro-controller from being damaged if a spike occurs in said communications between said reader and said relay module.
- 17. (ORIGINAL) The method of claim 15, wherein said at least one buffer rectifies any voltage level drop between said reader and said relay module.
 - 18. (ORIGINAL) An access control system, comprising:

a reader located in an unsecured area for determining access rights in response to presentation of a card and generating encrypted communications;

a relay module located in a secure area for receiving said encrypted communications from said reader, decrypting said encrypted communications, and comparing the decrypted communications to an expected code;

a door latch coupled to said relay module, said door latch actuated by said relay module switching power if the comparison of said decrypted communications and said expected code indicates a correct match.

- 19. (ORIGINAL) The access control system according to claim 18, wherein said generated encrypted communications comprises an access command for said relay module.
- 20. (ORIGINAL) The access control system according to claim 18, wherein said door latch is directly connected to said relay module.
- 21. (ORIGINAL) The access control system according to claim 20, wherein said relay module and said door latch are a single module.

- 22. (ORIGINAL) The access control system according to claim 18, wherein said reader comprises logic functions and a database residing in said reader.
- 23. (ORIGINAL) The access control system according to claim 22, wherein said database holds information including access times, users, hot-listing, holidays, and the like.
- 24. (ORIGINAL) The access control system according to claim 22, wherein said reader is autonomous if communications are cut or a master computer is brought down.
- 25. (ORIGINAL) The access control system according to claim 18, wherein said reader is a smartcard reader and said card is a smartcard.
- 26. (ORIGINAL) The access control system according to claim 25, wherein said smartcard implements an anti-passback feature.
- 27. (ORIGINAL) The access control system according to claim 18, wherein said reader is a biometric reader.
- 28. (ORIGINAL) The access control system according to claim 18, wherein said relay. module is a storage relay module.
- 29. (ORIGINAL) The access control system according to claim 18, wherein said relay module comprises:

a micro-controller for decrypting encrypted communications from a reader in an unsecured area and for comparing the decrypted communications to an expected code; and

a relay coupled to said micro-controller for switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

- 30. (ORIGINAL) The access control system according to claim 29, wherein said relay module further comprises at least one buffer coupled to said micro-controller for receiving said encrypted communications from said reader.
- 31. (ORIGINAL) The access control system according to claim 18, wherein said communications are encrypted using 128-bit AES, 3DES, DES, or skipjack.
- 32. (ORIGINAL) A method of controlling access to a secure area, said method comprising the steps of:

determining access rights using a reader located in an unsecured area in response to presentation of a card and generating encrypted communications;

receiving said encrypted communications from said reader using a relay module located in a secure area for, decrypting said encrypted communications, and comparing the decrypted communications to an expected code; and

actuating a door latch coupled to said relay module using said relay module by switching power if the comparison of said decrypted communications and said expected code indicates a correct match.

- 33. (ORIGINAL) The method according to claim 32, wherein said generated encrypted communications comprises an access command for said relay module.
- 34. (ORIGINAL) The method according to claim 32, wherein said door latch is directly connected to said relay module.
- 35. (ORIGINAL) The method according to claim 34, wherein said relay module and said door latch are a single module.
- 36. (ORIGINAL) The method according to claim 32, wherein said reader comprises logic functions and a database residing in said reader.
- 37. (ORIGINAL) The method according to claim 36, wherein said database holds information including access times, users, hot-listing, holidays, and the like.
- 38. (ORIGINAL) The method according to claim 36, wherein said reader is autonomous if communications are cut or a master computer is brought down.
- 39. (ORIGINAL) The method according to claim 32, wherein said reader is a smartcard reader and said card is a smartcard.
- 40. (ORIGINAL) The method according to claim 39, wherein said smartcard implements an anti-passback feature.
- 41. (ORIGINAL) The method according to claim 32, wherein said reader is a biometric reader,
- 42. (ORIGINAL) The method according to claim 32, wherein said relay module is a storage relay module.
- 43. (ORIGINAL) The method according to claim 32, wherein said relay module comprises:

a micro-controller for decrypting encrypted communications from a reader in an unsecured area and for comparing the decrypted communications to an expected code; and

a relay coupled to said micro-controller for switching power to actuate said door latch if the comparison of said decrypted communications and said expected code indicates a correct match.

- 44. (ORIGINAL) The method according to claim 43, wherein said relay module further comprises at least one buffer coupled to said micro-controller for receiving said encrypted communications from said reader.
- 45. (ORIGINAL) The method according to claim 32, wherein said communications are encrypted using 128-bit AES, 3DES, DES, or skipjack.
- 46. (ORIGINAL) A method of providing antipassback in an access control system, said method comprising the steps of

reading antipassback information from a read/write smartcard presented to a read/write reader;

checking permissions using said read/write reader; and
updating said read/write smartcard with updated antipassback information using
said reader.

47. (ORIGINAL) A method of providing antipassback in an access control system, said method comprising the steps of:

reading antipassback information from a read/write smartcard presented to a read/write reader;

determining if said antipassback information passes an integrity check based on an entry/exit pattern; and

if the antipassback information passes the integrity check, writing updated antipassback information to said read/write smartcard and granting access.

- 48. (ORIGINAL) The method according to claim 47, further comprising the step of, if the antipassback information fails to satisfy the integrity check, denying access.
- 49. (CURRENTLY AMENDED) The method according to any one of claims 46 to 48 claim 46, wherein said antipassback is able to be disabled.
- 50. (CURRENTLY AMENDED) The method according to any one of claims 46 to 49 claim 46, wherein said antipassback is able to be normalized so that a cardholder may proceed through an antipassback area without violating antipassback rules.
- 51. (ORIGINAL) The method according to claim 50, wherein a database of readers is updated with an antipassback flag.